



*Shram Sadhana Bombay Trust's*  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
BAMBHORI, POST BOX NO. 94, JALGAON – 425001 (M.S.)

**Report on Internship – I**

Submitted by: Neha Manoj Baviskar

Class: B.E.

Division: A Roll No: 5

Branch: Computer

Completion Certificate Issued by: TCR Innovation

Duration: 11 weeks

From: 23<sup>rd</sup> December 2022

To: 10<sup>th</sup> March 2023

**Objectives:**

1. Studying the machine learning concept
2. Develop proficiency in Python programming and relevant libraries such as NumPy, Pandas, Matplotlib, and Scikit-learn
3. Gain hands-on experience in real-world data science projects.
4. Execute projects under guidance, focusing on tasks like building predictive models and analyzing trends.
5. Understand various machine learning algorithms including regression, classification, clustering, and deep learning.

**Activities:**

1 <sup>st</sup> WEEK	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	23/12/22	Friday	Introduction to Python and Installation of Python
	24/12/22	Saturday	Basic programs in Python
	26/12/22	Monday	Variables and Operators in Python
	27/12/22	Tuesday	Conditional statements and Loops and Iteration
	28/12/22	Wednesday	Functions and Strings
	29/12/22	Thursday	Lists, Tuple, and Dictionary

2 <sup>nd</sup> WEEK	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	30/12/22	Friday	Modules and packages and Project and Assignment
	31/12/22	Saturday	Introduction to Machine Learning
	2/01/23	Monday	Libraries such as Numpy, Scipy, Matplotlib, Seaborn, Sklearn, Pandas
	3/01/23	Tuesday	Data visualization and manipulation using pandas
	4/01/23	Wednesday	Data Exploration
	5/01/23	Thursday	Project on HR Employee Attribution

<b>3<sup>rd</sup> WEEK</b>	<b>DATE</b>	<b>DAY</b>	<b>NAME OF THE TOPIC/MODULE COMPLETED</b>
	6/01/23	Friday	Types of Machine Learning
	7/01/23	Saturday	Linear Regression and Logistic Regression
	9/01/23	Monday	Project on car price prediction
	10/01/23	Tuesday	Decision Trees and Random Forest
	11/01/23	Wednesday	K Nearest Neighbor and Naive Bayes Classifier
	12/01/23	Thursday	K Means Clustering and Association Rule Mining

<b>4<sup>th</sup> WEEK</b>	<b>DATE</b>	<b>DAY</b>	<b>NAME OF THE TOPIC/MODULE COMPLETED</b>
	13/01/23	Friday	LinkedIn Updation
	14/01/23	Saturday	Resume Preparation
	16/01/23	Monday	Introduction to SQL
	17/01/23	Tuesday	Database, Tables and Keys
	18/01/23	Wednesday	Creating tables and Inserting values
	19/01/23	Thursday	Constraints

<b>5<sup>th</sup> WEEK</b>	<b>DATE</b>	<b>DAY</b>	<b>NAME OF THE TOPIC/MODULE COMPLETED</b>
	20/01/23	Friday	Update and Delete and Aggregate Functions
	21/01/23	Saturday	Additional Clauses – As, Between, Group by, Having, Like, Or
	23/01/23	Monday	Union and Joins
	24/01/23	Tuesday	ER Diagrams
	25/01/23	Wednesday	Assignment on SQL Commands
	26/01/23	Thursday	Project to implement machine learning

<b>6<sup>th</sup> WEEK</b>	<b>DATE</b>	<b>DAY</b>	<b>NAME OF THE TOPIC/MODULE COMPLETED</b>
	27/01/23	Friday	Introduction to Data Science
	28/01/23	Saturday	Basics of data science and machine learning
	30/01/23	Monday	Inferential and descriptive statistics
	31/01/23	Tuesday	Measures of center and measures of spread
	1/02/23	Wednesday	Normal distribution
	2/02/23	Thursday	Binomial distribution

<b>7<sup>th</sup> WEEK</b>	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	3/02/23	Friday	Poisson distribution
	4/02/23	Saturday	Bernoulli distribution
	6/02/23	Monday	Predictive modeling
	7/02/23	Tuesday	Anime_data Project
	8/02/23	Wednesday	Data exploration on anime data
	9/02/23	Thursday	House price prediction dataset

<b>8<sup>th</sup> WEEK</b>	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	10/02/23	Friday	Data visualization on house price prediction
	11/02/23	Saturday	Apply linear regression model on a dataset
	13/02/23	Monday	Updation of GitHub with projects
	14/02/23	Tuesday	Study Report Writing
	15/02/23	Wednesday	Applying logistic Regression on the house price prediction
	16/02/23	Thursday	Unsupervised clustering on mall customer dataset

<b>9<sup>th</sup> WEEK</b>	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	17/02/23	Friday	Engineering College Analytics as assignment
	18/02/23	Saturday	Apply Logistic Regression
	20/02/23	Monday	Project on Anti-Phishing Legitimate
	21/02/23	Tuesday	Collection of Dataset
	22/02/23	Wednesday	Reading Dataset and frame null values
	23/02/23	Thursday	Studying of Dataset

<b>10<sup>th</sup> WEEK</b>	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	24/02/23	Friday	Data visualization
	25/02/23	Saturday	Applying Logistic Regression on it
	27/02/23	Monday	Studying scikit-learn
	28/02/23	Tuesday	Applying Random Forest Classifier
	1/03/23	Wednesday	Training the model
	2/03/23	Thursday	Use of correlational Heatmap

11 <sup>th</sup> WEEK	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	3/03/23	Friday	Writing report on anti phishing project
	4/03/23	Saturday	Study of Classification Report
	6/03/23	Monday	Calculating the accuracy of the model
	7/03/23	Tuesday	Updating Report
	8/03/23	Wednesday	Mock Interview
	9/03/23	Thursday	Completion of internship

### Outcome:

Upon successful completion of this module,

1. Able to understand Machine learning Concepts.
2. Able to apply machine learning concepts on day-to-day data.
3. Analyze and understand the classification report and its accuracy.
4. Able to Study the statistics.
5. Able to understand the poisons distribution, normal distribution, etc.
6. Able to understand linear regression, Logistic Regression, Random forest Classifier, etc.

Name & Sign of the Student

Date:

Internship Coordinator

**Note:** Attach completion certificates along with the report